

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-12. (Canceled)

13. (Currently Amended) A method of providing an IP address for a host in a computer network, the method comprising the steps of:

receiving at an appliance a request for an IP address associated with a domain name from a client in a computer network;

retrieving the requested IP address from ~~an object-oriented database~~ associated with the appliance; and

transmitting the retrieved IP address to the client[.];

wherein the appliance includes a processor configured to run an operating system that is optimized to provide a network name-related functionality, including by omitting from the operating system at least one software component that is not required to provide the network name-related functionality.

14. (Currently Amended) The method of claim 13, further comprising the step of establishing communicative coupling between a client web browser and ~~a Domain Name Service (DNS) server~~ the appliance.

15. (Original) The method of claim 13, wherein the computer network comprises the Internet.

16. (Original) The method of claim 13, wherein the computer network comprises an IP based computer network.

17. (Original) The method of claim 13, wherein the computer network comprises an intranet.

18. (Currently Amended) The method of claim 13, wherein the appliance ~~a Domain Name Service (DNS) server system~~ receives the request ~~and the DNS server system comprises a DNS server appliance.~~
19. (Previously Presented) The method of claim 13, further including linking a host object with a network object and a zone object.
20. (Previously Presented) The method of claim 19, wherein the zone object is linked to another zone object.
21. (Previously Presented) The method of claim 19, wherein the network object is linked to another network object.
22. (Previously Presented) The method of claim 13, further including:
 unlinking an old network object from a host object;
 deleting the old network object; and
 linking the host object to a new network object.
23. (Previously Presented) The method of claim 22, further including automatically updating the host object to reflect an association with the new network object.
- 24-35. (Canceled)
36. (Currently Amended) A computer program product for providing an IP address for a host in a computer network, the computer program product being embodied in a computer readable medium and comprising computer instructions for:
 receiving at an appliance a request for an IP address associated with a domain name from a client in a computer network;
 retrieving the requested IP address from ~~an object-oriented database~~ associated with the appliance; and
 transmitting the retrieved IP address to the client[[]];
wherein the appliance includes a processor configured to run an operating system that is optimized to provide a network name-related functionality, including by omitting from the operating system at least one software component that is not required to provide the network name-related functionality.
37. (Currently Amended) A computer program product as recited in claim 36, the computer

program product further comprising computer instructions for ~~further comprising the step of~~
establishing communicative coupling between a client web browser and the appliance ~~a Domain~~
~~Name Service (DNS) server.~~

38. (Previously Presented) A computer program product as recited in claim 36, wherein the computer network comprises the Internet.

39. (Previously Presented) A computer program product as recited in claim 36, wherein the computer network comprises an IP based computer network.

40. (Previously Presented) A computer program product as recited in claim 36, wherein the computer network comprises an intranet.

~~41. (Currently Amended) A computer program product as recited in claim 36, wherein a~~
~~Domain Name Service (DNS) server system~~ the appliance ~~receives the request and the DNS~~
~~server system comprises a DNS server appliance.~~

42. (Previously Presented) A computer program product as recited in claim 36, the computer program product further comprising computer instructions for linking a host object with a network object and a zone object.

43. (Previously Presented) A computer program product as recited in claim 42, wherein the zone object is linked to another zone object.

44. (Previously Presented) A computer program product as recited in claim 42, wherein the network object is linked to another network object.

45. (Previously Presented) A computer program product as recited in claim 36, the computer program product further comprising computer instructions for:

unlinking an old network object from a host object;

deleting the old network object; and

linking the host object to a new network object.

46. (Previously Presented) A computer program product as recited in claim 45, the computer program product further comprising computer instructions for automatically updating the host object to reflect an association with the new network object.

47-58. (Canceled)

59. (Currently Amended) A system for providing an IP address for a host in a computer network, including:

a processor configured to:

receive at an appliance a request for an IP address associated with a domain name from a client in a computer network;

retrieve the requested IP address from ~~an object-oriented database~~ associated with the appliance; [[and]]

transmit the retrieved IP address to the client; and

run an operating system that is optimized to provide a network name-related functionality, including by omitting from the operating system at least one software component that is not required to provide the network name-related functionality; and

a memory coupled with the processor, wherein the memory provides the processor with instructions.

60. (Currently Amended) The system of claim 59, wherein the processor is further configured to establish communicative coupling between a client web browser and the appliance ~~a Domain Name Service (DNS) server~~.

61. (Previously Presented) The system of claim 59, wherein the computer network comprises the Internet.

62. (Previously Presented) The system of claim 59, wherein the computer network comprises an IP based computer network.
63. (Previously Presented) The system of claim 59, wherein the computer network comprises an intranet.
64. (Currently Amended) The system of claim 59, wherein the appliance ~~a Domain Name Service (DNS) server system~~ receives the request and ~~the DNS server system comprises a DNS server appliance.~~
65. (Previously Presented) The system of claim 59, wherein the processor is further configured to link a host object with a network object and a zone object.
66. (Previously Presented) The system of claim 65, wherein the zone object is linked to another zone object.
67. (Previously Presented) The system of claim 65, wherein the network object is linked to another network object.
68. (Previously Presented) The system of claim 59, wherein the processor is further configured to:
- unlink an old network object from a host object;
 - delete the old network object; and
 - link the host object to a new network object.
69. (Previously Presented) The system of claim 68, wherein the processor is further configured to automatically update the host object to reflect an association with the new network object.
70. (New) The method of claim 13, wherein the operating system is derived from a full operating system that includes the at least one software component.

71. (New) The method of claim 13, wherein the at least one software component includes one of the following: a driver or a utility software.
72. (New) The method of claim 13, wherein the appliance excludes a hardware component that typically is included in a host computing system but that is not required to provide the network name-related functionality.
73. (New) The method of claim 13, wherein the appliance excludes a communication port that typically is included in a host computing system but that is not required to provide network name-related functionality.
74. (New) The method of claim 13, wherein the network name-related functionality comprises the Domain Name Service (DNS) and the IP address comprises a requested IP address associated with a host identified in a DNS request received at the appliance.
75. (New) The method of claim 13, further including providing an interface for configuring the appliance.
76. (New) The method of claim 13, further including providing a web interface for configuring the appliance from a client web browser.
77. (New) The method of claim 13, wherein the appliance includes a DNS server, a configuration server, a web server, a database, and/or a GUI.
78. (New) The method of claim 13, wherein the database comprises an object oriented database.
79. (New) The computer program product of claim 36, wherein the operating system is derived from a full operating system that includes the at least one software component.

80. (New) The computer program product of claim 36, wherein the at least one software component includes one of the following: a driver or a utility software.
81. (New) The computer program product of claim 36, wherein the appliance excludes a hardware component that typically is included in a host computing system but that is not required to provide the network name-related functionality.
82. (New) The computer program product of claim 36, wherein the appliance excludes a communication port that typically is included in a host computing system but that is not required to provide network name-related functionality.
83. (New) The computer program product of claim 36, wherein the network name-related functionality comprises the Domain Name Service (DNS) and the IP address comprises a requested IP address associated with a host identified in a DNS request received at the appliance.
84. (New) The computer program product of claim 36, the computer program product further comprising computer instructions for providing an interface for configuring the appliance.
85. (New) The computer program product of claim 36, the computer program product further comprising computer instructions for providing a web interface for configuring the appliance from a client web browser.
86. (New) The computer program product of claim 36, wherein the appliance includes a DNS server, a configuration server, a web server, a database, and/or a GUI.
87. (New) The computer program product of claim 36, wherein the database comprises an object oriented database.

88. (New) The system of claim 59, wherein the operating system is derived from a full operating system that includes the at least one software component.
89. (New) The system of claim 59, wherein the at least one software component includes one of the following: a driver or a utility software.
90. (New) The system of claim 59, wherein the appliance excludes a hardware component that typically is included in a host computing system but that is not required to provide the network name-related functionality.
91. (New) The system of claim 59, wherein the appliance excludes a communication port that typically is included in a host computing system but that is not required to provide network name-related functionality.
92. (New) The system of claim 59, wherein the network name-related functionality comprises the Domain Name Service (DNS) and the IP address comprises a requested IP address associated with a host identified in a DNS request received at the appliance.
93. (New) The system of claim 59, wherein the processor is further configured to provide an interface for configuring the appliance.
94. (New) The system of claim 59, wherein the processor is further configured to provide a web interface for configuring the appliance from a client web browser.
95. (New) The system of claim 59, wherein the appliance includes a DNS server, a configuration server, a web server, a database, and/or a GUI.
96. (New) The system of claim 59, wherein the database comprises an object oriented database.